MANUAL/ELECTRIC PORTABLE PATIENT LIFT OWNER'S INSTALLATION AND OPERATING INSTRUCTIONS

INVACARE® IPL 150em

INVACARE® IPL 150ee

DEALER: THIS MANUAL MUST BE GIVEN TO THE USER OF THE PATIENT LIFT.

USER: BEFORE USING THIS PATIENT LIFT, READ THIS MANUAL AND SAVE FOR FUTURE REFERENCE.

INVACARE®

Yes, you can.

WARNING

DO NOT OPERATE THIS EQUIPMENT WITHOUT FIRST READING AND UNDERSTANDING THE WARNINGS, CAUTIONS AND INSTRUCTIONS IN THIS MANUAL AND THE OWNER'S MANUAL PROVIDED WITH THE SLINGS. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS, CAUTIONS, AND INSTRUCTIONS, CONTACT A HEALTHCARE PROFESSIONAL, DEALER OR TECHNICAL PERSONNEL IF APPLICABLE BEFORE ATTEMPTING TO USE THIS EQUIPMENT - OTHERWISE INJURY OR DAMAGE MAY RESULT.

THE INFORMATION CONTAINED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.

RADIO FREQUENCY INTERFERENCE
Most electronic equipment is influenced by Radio Frequency Interference (RFI). CAUTION should be exercised with regard to the use of portable communication equip-ment in the area around such equipment.
If RFI causes erratic behavior, PUSH the Red Emergency Stop Button IMMEDIATELY. DO NOT turn the Red Emergency Stop Button OFF while transmission is in progress.
This product meets EN60601-1-2 Collateral Standard: Electromagnetic Compatibility.

MAINTENANCE
Maintenance MUST be performed ONLY by qualified personnel.

WARNING notices as used in this manual apply to hazards or unsafe practices which could result in serious bodily harm.

CAUTION notices as used in this manual apply to hazards or unsafe practices which could result in minor personal injury or property damage.

NOTES highlight procedures and contain information which assist the operator in understanding the information contained in this manual.

SAVE THESE INSTRUCTIONS AND KEEP WITH PATIENT LIFT AT ALL TIMES.

SPECIAL NOTES

INVACARE® *IPL 150em*

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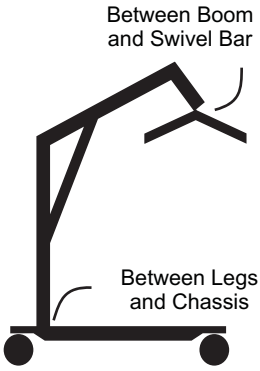
SPECIAL NOTES

CAUTION

Pinch Points
fingers could be pinched.



WARNING

When positioning Lift, be aware of the position of the Swivel Bar and the patient. Injury could occur.

WARNING

Device contains Lead Acid Gel Cell batteries. DO NOT dispose of batteries in normal household waste. They MUST be taken to a proper disposal site. Contact your local waste management company for information.

EMERGENCY Mechanical Lowering
Pull UP on red EMERGENCY lever on Actuator. Push DOWN on Boom.

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INVACARE® *IPL 150ee*

SPECIFICATIONS

SPECIFICATIONS

	RPL330	RPL330ee
Height at Sling Hook-up MAXIMUM:	65”(1651mm)	65”(1651mm)
Height at Sling Hook-up MINIMUM:	21”(533mm)	21”(533mm)
Base Width OPEN:	38”(965mm)	38”(965mm)
Base Width CLOSED:	25”(635mm)	25”(635mm)
Base Height (Clearance):	5”(127mm)	5”(127mm)
Base Length:	41”(1042mm)	41”(1042mm)
Storage Height MINIMUM:	49.5”(1143mm)	49.5”(1143mm)
Caster Size (FRONT/REAR):	4”(100mm)	4”(100mm)
Sling Options:	2-Styles	2-Styles
Weight Capacity:	440 lb (200kg)	440 lb (200kg)
Weight IN Carton	156 lb (71kg)	161 lb (73kg)
Weight OUT of Carton:	105 lb (48kg)	110 lb (50kg)
Battery:	24VDC	24VDC
Charger Input:	100 - 240 VAC	100 - 240 VAC
Charger Output/Charging Time:	29.5 VDC Max. 6 Hours	29.5 VDC Max. 6 Hours
Accessories:	Digital Scale	Digital Scale
Audio Low Battery Alarm:	YES	YES
Motor Safety Devices:	Anti-Entrap-ment	Anti-Entrap-ment
***Approx. Lifts per Charge:**	*100-200 Cycles per charge	*100-200 Cycles per charge
Warranty (Electric/Electronics):	1 Year	1 Year
Emergengcy Stop Button:	YES	YES

WARNING

Check all parts for shipping damage before using. In case of damage, DO NOT use the equipment. Contact the Dealer for further instructions.

The Invacare patient lift is NOT a transport device. It is intended to transfer an individual from one resting surface to another (such as a bed to a wheelchair). Moving a person suspended in a sling over ANY distance is NOT recommended.

DO NOT attempt any transfer without approval of the patient's physician, nurse or medical assistant. Thor-oughly read the instructions in this Owner's Manual, observe a trained team of experts perform the lifting procedures and then perform the entire lift procedure several times with proper supervision and a capable individual acting as a patient.

Use common sense in all lifts. Special care MUST BE taken with people with disabilities who cannot cooperate while being lifted. Use restraint straps if necessary.

Invacare slings and patient lift accessories are specifically designed to be used in conjunction with Invacare patient lifts. Slings and accessories designed by other manufacturers are not to be utilized as a component of Invacare's lift system. Use of these products is prohibited and will void Invacare's patient lift warranty. Use only genuine Invacare slings and patient lift accessories to maintain patient safety and product utility.

Use a sling that is recommended by the individual's doctor, nurse or medical assistant for the comfort and safety of the individual being lifted.

DO NOT use any kind of plastic back incontinence pad or seating cushion between patient and sling material that may cause the patient to slide out of the sling during transferring.

When using an adjustable base lift, the legs MUST BE in the maximum OPENED/LOCKED position BEFORE lifting the patient.

Before transferring a patient from a stationary object (wheelchair, commode or bed), slightly raise the patient off the stationary object and check that all sling attachments are secure. If any attachment is not correct, lower the patient and correct the problem, then raise the patient and check again.

SAFETY SUMMARY

WARNING

During transfer, with patient suspended in a sling attached to the lift, DO NOT roll caster base over objects such as carpet, raised carpet bindings, door frames, or any uneven surfaces or obstacles that would create an imbalance of the patient lift and could cause the patient lift to tip over. Use steering handle on the mast at ALL times to push or pull the patient lift.

Invacare does NOT recommend locking of the rear casters of the patient lift when lifting an individual. Doing so could cause the lift to tip and endanger the patient and assistants. Invacare DOES recommend that the rear casters be left UNLOCKED during lifting procedures to allow the patient lift to stabilize itself when the patient is initially lifted from a chair, bed or any stationary object.

After the first 12 months of operation, inspect the swivel bar and the eye of the boom (to which it attaches) for wear. If the metal is worn, the parts MUST be replaced. Make this inspection every six (6) months thereafter. Casters and axle bolts require inspection every six (6) months to check for tightness and wear. Regular maintenance of patient lifts and accessories is necessary to assure proper operation.

DO NOT exceed maximum weight limitation of the patient lift. The weight limitation for the IPL 150em and the IPL 150ee is 330 lbs (150 kg).

ASSEMBLY OF THE PATIENT LIFT

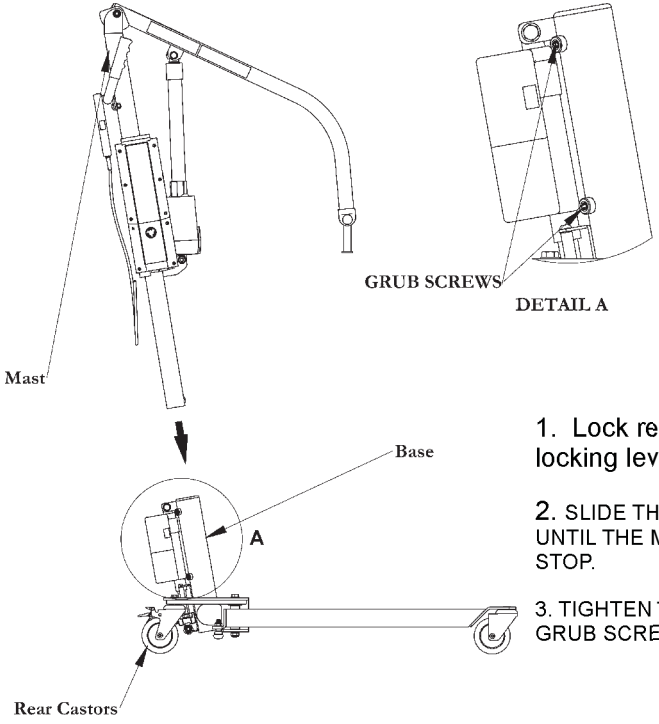
WARNING

Use ONLY Invacare parts in the assembly of this patient lift.
The base legs, the mast, boom, pump assembly and the swivel bar are manufactured to specifications that assure correct alignment of all parts for safe functional operation.

Unpacking the Patient Lift

1. Unpack the components from the shipping carton.

Assembling the Mast to the Base



1. Lock rear casters by pressing on locking lever.

2. SLIDE THE MAST INTO THE BASE UNIT UNTIL THE MAST REACHES THE BOTTOM STOP.

3. TIGHTEN THE HEXAGON SOCKET GRUB SCREWS.

WARNING

The mast may be removed from the base for storage or transporting. Each time the mast is removed and returned to the base, the mast MUST be properly secured to the base assembly.

OPERATING THE PATIENT LIFT

To Close/Open the Legs of the IPL 150em

The shifter handle is used to open or close the legs of the base for stability when lifting a patient.

WARNING

The operation of the patient lift is an easy and safe procedure. DO NOT attempt any transfer without approval of the patient's physician, nurse or medical assistant. Thoroughly read the instructions in this Owner's Manual, observe a trained team of experts performing the lifting procedures and then perform the entire lift procedure several times with proper supervision and a capable individual acting as a patient.

ONLY operate this lift with the legs in MAXIMUM OPEN POSITION and LOCKED in place. The base legs MUST be locked in the open position at all times for stability and patient safety when lifting and transferring a patient.

1. Stand at the rear of the patient lift and grasp the shifter handle with one (1) hand and place the opposite hand on the steering handle of the mast for balance. *NOTE: The shifter handle MUST lock into its mounting slot to lock the legs in the full open or closes position.*

WARNING

If the shifter handle is NOT positioned completely into its mounting slot, DO NOT use the patient lift until shifter handle Is properly seated and the legs of the pa-tient lift LOCKED in place or injury and/ or damage may occur.

To Close

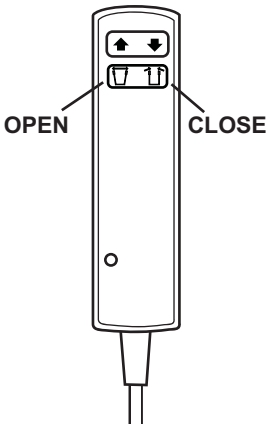
2. Push the shifter handle OUT and away from the patient lift and then to your LEFT until it LOCKS in the notch of the bracket.

To Open

3. Push the shifter handle OUT and away from the patient lift and then to your RIGHT until it LOCKS in the notch of the bracket.

To Close/Open the Legs of the IPL 150ee

The bottom row of the handset is used to open or close the legs of the base for stability when lifting a patient. Pressing the left button opens the legs out, the right button closes the legs.



WARNING

The operation of the patient lift is an easy and safe procedure. DO NOT attempt any transfer without approval of the patient's physician, nurse or medical assistant. Thoroughly read the instructions in this Owner's Manual, observe a trained team of experts performing the lifting procedures and then perform the entire lift procedure several times with proper supervision and a capable individual acting as a patient.

ONLY operate this lift with the legs in MAXIMUM OPEN POSITION. The base legs MUST be in the open position at all times for stability and patient safety when lifting and transferring a patient.

WARNING

Invacare does NOT recommend locking of the rear casters of the patient lift when lifting an individual. Doing so could cause the lift to tip and endanger the patient and assistants. Invacare DOES recom-mend that the rear casters be left UN-LOCKED during lifting procedures to al-low the patient lift to stabilize itself when the patient is initially lifted from a chair, bed or any stationary object.

Raising the Lift

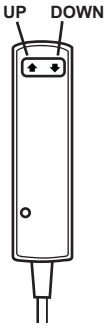
Press the UP button to raise the boom and the patient lift.

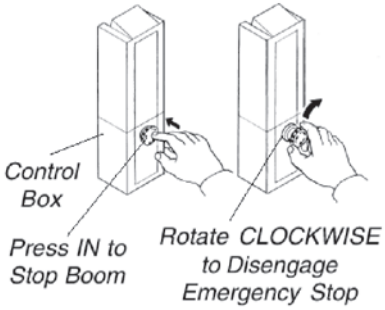
Lowering the Lift

Press the DOWN button to lower the boom and the patient.
Press EMERGENCY DOWN BUTTON on Control Box.
Pull UP on EMERGENCY lever and push DOWN on the boom at the same time.

Emergency Stop

Press the RED button on the control box IN to stop the lift arms and patient from raising or lowering.





Mounting Battery Charger

NOTE: Refer to your local regulations concerning proper mounting procedures.

1. Place the battery charger with mounting bracket on the wall at the desired position.

2. With a pencil, mark the MIDDLE hole position.

3. Measure down 6-1/2-inches from the pencil mark and drill one (1) mounting hole.

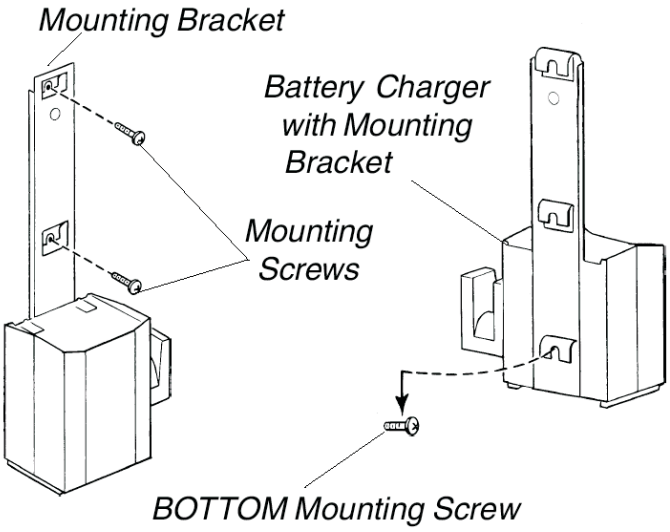
4. Install the BOTTOM mounting screw until there is an approximate1/8-inch gap between the screw head and the wall.

5. Install the battery charger with mounting bracket onto the bottom mounting screw.

6. Drill the remaining two (2) mounting holes.

7. Install the two (2) remaining mounting screws through the mounting bracket and into the wall. Tighten securely.

8. Plug the battery charger into the wall electrical outlet. *NOTE: ON LED should illuminate.*



Charging the Batteries

NOTE: Invacare recommends the battery be recharged daily to prolong battery life.

NOTE: An audible alarm will sound (beep) when battery is low.

1. Lift UP on the handle on the back of the battery.

2. Lift the battery UP and OUT away from the control box.

WARNING

Make sure there is an audible click when mounting battery either on the battery charger or control box to confirm proper mounting. Otherwise, injury or damage may occur. Refer to diagram below for correct

3. Place the battery on the battery charger as shown in the following diagram. Make sure there is an audible click.

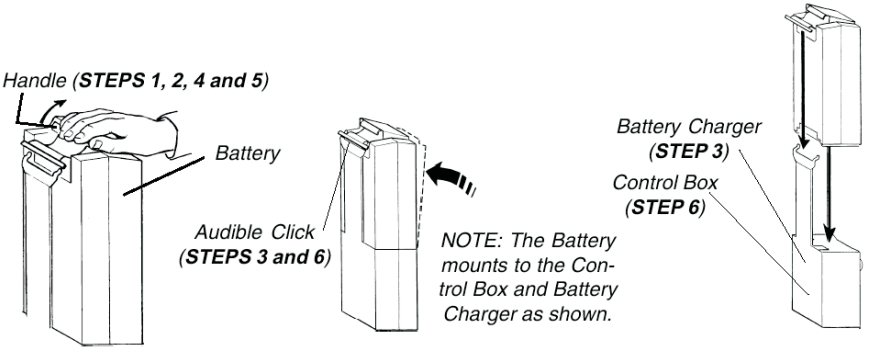
NOTE: The charge LED will illuminate. When charging is complete, charge LED will stop illuminating.

NOTE: A battery needing to be fully recharged will take approximately four (4) hours.

4. Lift UP on the handle on the back of the battery.

5. Lift the battery UP and OUT away from the battery charger.

6. Reinstall the battery onto the control box as shown.
Make sure there is an audible click.



LIFTING / MOVING THE PATIENT

NOTE: DO NOT engage the rear locking casters when patient is in the lift.

1. Press the UP button to raise the patient above the bed. The patient should be elevated high enough to clear the bed with their weight fully supported by the lift. *NOTE: The boom will stay in position until the DOWN button is pressed.*

2. When the patient is lifted from the bed (with the patient's head supported by the sling and/or an assistant), he/she will be raised to a sitting position.

WARNING

When elevated a few inches off the surface of the bed and before moving the patient, check again to make sure that the sling is properly connected to the hooks of the swivel bar. If any attachments are NOT properly in place, lower the patient back onto the bed and correct this problem. Adjustments for safety and comfort should be made before moving the patient. Patient's arms should be inside of the straps.

3. When patient is clear of the bed surface, swing their feet off the bed.

4. Using the steering handles, move the lift away from the bed.

LIFTING THE PATIENT (continued)

5. When moving the patient lift away from the bed, turn patient so that he/she faces assistant operating the patient lift.

6. Press the DOWN button lowering patient so that his feet rest on the base of the lift, straddling the mast.

NOTE: The lower center of gravity provides sta-bility making the patient feel more secure and the lift easier to move.

7. Pull the patient lift away from the bed and push from behind with both hands firmly on the push handle.

TRANSFERRING PATIENT FOR USE OF THE BATHROOM FACILITIES

Transferring Patient for use of a Commode Chair or Standard Commode

The slings with commode openings are designed to be used with either a commode chair or standard commode.
NOTE: Invacare recommends that the sling remain connected to the swivel bar hooks during the patient's use of either the commode chair or standard commode.

Invacare recommends that two (2) assistants be used for ALL lifting preparation, transferring from and transferring to procedures. The use of one (1) assistance is totally based on the evaluation of the healthcare

WARNING

When elevated a few inches off the surface of the commode chair or standard commode and before moving the patient, check again to make sure that the sling is properly connected to the swivel bar hooks. If the sling attachments are NOT properly in place, lower the patient back onto the commode chair or standard commode to correct this problem.

Adjustments for safety and comfort should be made before moving the patient. Patient's arms should be inside of the straps.

Invacare slings are made specifically for use with Invacare Patient Lifts. For the safety of the patient, DO NOT intermix slings and patient lifts of different manufacturers. Warranty will be voided.

Invacare does NOT recommend locking of rear casters of the patient lift when lifting an individual. Doing so could cause the lift to tip and endanger the patient and assistants. Invacare DOES recommend that the rear casters be left UNLOCKED during lifting procedures to allow the patient lift to stabilize itself when the patient is initially lifted from a chair, bed or any stationary object.

Transferring to a Commode Chair

1. For operation of the patient lift refer to OPERATION Section of this Owner's Manual.

2. The patient should be elevated high enough to clear the commode chair arms and their weight supported by the patient lift.

3. With the help of both assistants, guide the patient onto the commode chair.

4. Lower the patient onto the commode chair leaving the sling attached to the swivel bar hooks.

5. When complete, recheck for correct attachment and then raise the patient off of the commode chair.

6. When patient is clear of the commode surface (using the steering handles), move the lift away from the commode chair.

7. To return patient to bed, reverse procedures concerning lifting the patient, operation and sling attachment.

8. To return or place patient in a wheelchair, refer to TRANSFERRING TO A WHEELCHAIR.

Transferring to a Standard Commode

Invacare recommends that two (2) assistants be used for ALL lifting preparation, transferring from and transferring to procedures. The use of one (1) assistance is totally based on the evaluation of the healthcare professional for each individual case.

NOTE: The patient MUST be transferred to a WHEELCHAIR and transported to the bathroom facilities before using the patient lift again to position the patient on a standard commode. Refer to TRANSFERRING TO A WHEELCHAIR in this manual. After this has been accomplished refer to the following:

1. For operation of the patient lift refer to OPERATION Section of this Owner's Manual.

2. The patient should be elevated high enough to clear the standard commode and their weight supported by the patient lift.

3. With the help of both assistants, guide the patient onto the standard commode.

4. Lower the patient onto the standard commode leaving the sling attached to the swivel bar hooks.

5. When complete, recheck for correct attachment and then raise the patient off of the standard commode.

6. When patient is clear of the standard commode surface (using the steering handles), move the lift away from the standard commode.

7. To return or place patient in a wheelchair, refer to TRANSFERRING TO A WHEELCHAIR.

8. To return patient to bed, reverse procedures concerning lifting the patient, operation and sling at-tachment.

Transferring to a Bathing Unit

WARNING

When elevated a few inches off the surface of the bed and before moving the patient, check again to make sure that the sling is properly connected to the swivel bar hooks. If any attachments are NOT properly in place, lower the patient completely to correct this problem.

Adjustments for safety and comfort should be made before moving the patient. Patient's arms should be inside of the straps.

Invacare slings are made specifically for use with Invacare Patient Lifts. For the safety of the patient, DO NOT intermix slings and patient lifts of different manufacturers. Warranty will be voided.

Invacare does NOT recommend locking of the rear casters of the patient lift when lifting an individual. Doing so could cause the lift to tip and endanger the patient and assistants. Invacare DOES recommend that the rear casters be left UNLOCKED during lifting procedures to allow the patient lift to stabilize itself when the patient is initially lifted from a chair, bed or any stationary object.

NOTE: There are many portable bathing apparatuses; this is an example of one. Refer to your particular portable bath instructions and use them in conjunction with this Owner's Manual.

1. For operation of the patient lift refer to OPERATION Section of this Owner's Manual.

2. The patient should be elevated high enough to clear the bed and be able to slide the portable bath tub under the patient.

3. Lower the patient into the portable bath tub.

4. Detach the sling from the swivel bar hooks and attach the portable bath tub straps to the patient lift.

5. Using the lift, raise the sides of the portable bath tub.

6. Bathe patient.

TRANSFERRING TO A WHEELCHAIR

NOTE: For operation of the patient lift refer to OPERA-TION Section of this Owner's Manual.

Invacare recommends that two (2) assistants be used for ALL lifting preparation, transferring from and transferring to procedures. The use of one (1) assistance is totally based on the evaluation of the healthcare professional for each individual case.

WARNING

When elevated a few inches off a seating surface and before moving the patient, check again to make sure that the sling is properly connected. If any attachments are NOT properly in place, lower the patient completely to correct this problem.

Adjustments for safety and comfort should be made before moving the patient. Patient's arms should be inside of the straps.

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Invacare does NOT recommend locking of the rear casters of the patient lift when lifting an individual. Doing so could cause the lift to tip and endanger the patient and assistants. Invacare DOES recommend that the rear casters be left UNLOCKED during lifting procedures to allow the patient lift to stabilize itself when the patient is initially lifted from a chair, bed or any stationary object.

Before transferring, check that the wheelchair weight capacity can withstand the patient's weight.

1. The legs of the lift (w/patient) are in the opened position.

2. The wheelchair is moved into position.

WARNING

Wheelchair wheel locks MUST be in a locked position before lowering the patient into the wheelchair for transport.

3. The rear wheel locks of the wheelchair are locked to prevent movement of the chair.

NOTE: Use straps or handles on side and back of sling to guide patients' hips as far back as possible into the seat for proper positioning.

4. The patient is positioned over the seat with their back against the back of the chair.

5. Begin to lower the patient by pressing the DOWN button.

6. With one (1) assistant behind the chair and the other operating the patient lift, the assistant behind the chair will pull back on the "grab handle" or sides of the sling to seat the patient well into the back of the chair. This will maintain a good center of balance and prevent the chair from tipping forward.

7. The sling is left in place.

8. To return to the seating surface, reverse procedures concerning lifting the patient, operation and sling attachments.

WARNING

Be sure to check the sling attachments each time the sling is removed and replaced, to ensure that it is properly attached before the patient is removed from the bed or chair.

TROUBLESHOOTING

SYMPTOMS	FAULTS	SOLUTION
Patient Lift feels loose.	Mast/Base joint loose.	Refer to ASSEMBLY section in this manual.
	Tie - Rods are loose.	Refer to the Base Adjustment in the CARE AND MAINTENANCE section in this manual.
Casters/Brakes noisy or stiff.	Fluff or debris in bearings.	Refer to Casters in the CARE AND MAINTENANCE section in this manual.
Noisy or dry sound from pivots.	Needs lubrication.	Refer to Lubrication in the CARE AND MAINTENANCE section in this manual.
Electric actuator fails to lift when button is pressed.	Hand-control or actuator connector loose.	Check connections.
	Batteries low.	Charge batteries. Refer to CHARGING THE BATTERIES in the OPERATION section of this manual.
	RED emergency stop button pressed IN.	Rotate RED emergency stop button CLOCKWISE until it pops out.
	Battery not connected properly to control box.	Reconnect the battery to the control box.Refer to CHARGING BATTERIES in the OPERATION section of this manual.
	The connecting terminals are damaged.	Replace the battery pack. Refer to CHARGING BATTERIES in the OPERATION section of this manual.
	Electric actuator in need of service or load is too high.	Refer to Electric Actuator Replacement in the CARE AND MAINTENANCE section of this manual. Contact your Dealer.
Unusual noise from actuator.	Actuator is worn or damaged or spindle is bent.	Refer to ELECTRIC ACTUATOR REPLACEMENT in the CARE AND MAINTENANCE section of this manual. Contact your Dealer.
Boom will not lower in uppermost position.	Boom require a minimum weight load to lower from the uppermost position.	Pull down slightly on the lift arms.

NOTE: If problems are not remedied by the suggested means, please contact your Dealer or Invacare.

MAINTENANCE SAFETY INSPECTION CHECKLIST

ITEM	INITIALLY	INSTITUTIONAL INSPECT/ADJUST MONTHLY	IN-HOME INSPECT EVERY SIX (6) MONTHS
THE CASTER BASE			
Inspect for missing hardware.	X	X	X
Base opens/closes with ease.	X	X	X
Inspect casters and axle bolts for tightness.	X	X	X
Inspect casters for smooth swivel and roll.	X	X	X
SHIFTER HANDLE			
Operates smoothly.	X	X	X
Locks adjustable base whenever engaged.	X	X	X
THE MAST			
Mast MUST be securely assembled to boom.	X	X	X
Inspect for bends or deflections.	X	X	X
THE BOOM			
Check all hardware and swivel bar supports.	X	X	X
Inspect for bends or deflections.	X	X	X
Inspect bolted joints of boom for wear.	X	X	X
Inspect to ensure that the boom is centered between the base legs.	X	X	X
THE SWIVEL BAR			
Check the bolt / hooks for wear or damage.	X	X	X
Check sling hooks for wear or deflection.	X	X	X
ELECTRIC ACTUATOR ASSEMBLY			
Inspect hardware on mast and boom.	X	X	X
Check for wear or deterioration. (IF DAMAGED, RETURN TO FACTORY).	X	X	X
Cycle to ensure smooth quiet operation.	X	X	X
CLEANING			
Whenever necessary.	X	X	X
SLINGS AND HARDWARE			
CHECK ALL SLING ATTACHMENTS each time it is used to ensure proper connection and patient safety.	X	X	X
Inspect sling material for wear.	X	X	X
Inspect straps for wear.	X	X	X

NOTE: For individual home use, a full inspection is required prior to each new user.
NOTE: Regular cleaning will reveal loose or worn parts, enhance smooth operation and extend the life expectancy of the lift.

INVACARE® *IPL 150em*

INVACARE® *IPL 150ee*

Lifter Maintenance

Safety Inspections

Periodic inspections should be performed by a person who is suitably and properly qualified and well acquainted with the design, use and care of the hoist.
Inspections should be carried out both routinely (at least as often as specified) and, as necessary. Defects and resulting actions should be reported in writing to your supplier.

If inspection reveals that the safety of the hoist is jeopardised in any way, the Owner should be notified immediately, the hoist should be taken out of service and not used again until the problem has been rectified. Contact the supplier to arrange servicing.

A Guide to Maintenance Procedures

A regular visual check of the hoist and attachments is essential.
Ideally, Invacare Australia recommends servicing by an authorised service agent in accordance with the following schedule of Service Types:

Pre-Delivery Inspection

- Confirm all components are included
- Inspect parts for possible damage in transit
- Ensure all components are in working order
- Arrange repair/replacement of any faulty parts
- Complete and sign log book

Minor Service: *(After Every 3 Months of Service)*

- General inspection of lifter
- Check castors are tightly attached to legs
- Check castors for free running wheels (remove any fluff and/or hair)
- Check castor brakes operate efficiently
- Overhaul castors and repack with grease
- Inspect surfaces for scratches/chips
- Retard rusting by applying spray paint (Dulux 'Special White' Code: 81880)
- Clean surfaces with mild soap and water and remove any adhesive tape marks with eucalyptus oil
- Examine all moving parts and fasteners for wear and fatigue and lubricate and/or adjust as required
- Arrange repair/replacement of any faulty parts
- Complete and sign log book

Major Service: *(After Every 6 Months of Service)*

- General inspection of lifter
- Check castors are tightly attached to legs
- Check castors for free running wheels (remove any fluff and/or hair)
- Check castor brakes operate efficiently
- Overhaul castors and repack with grease
- Inspect surfaces for scratches/chips
- Retard rusting by applying spray paint (Dulux 'Special White' Code: 81880)
- Clean surfaces with mild soap and water and remove any adhesive tape marks with eucalyptus oil
- Examine all moving parts and fasteners for wear and fatigue and lubricate and/or adjust as required
- Check tightness of bolt in leg bushes
- Check linkages are secure in leg adjuster ball joints
- Check all electrical components, including battery chargers for correct operation
- Remove dust and dirt from actuator with cloth
- Repack actuator clevis' with grease *
- Wipe actuator shaft with oiled rag (DO NOT use lubricant such as WD40 or RP7)
- Strip hydraulic pump handle mechanism, clean and regrease the two handle pivot pins
- Check hydraulic pump handle for excess wear
- Check boom/yoke/pivoting frame attachment – remove bolt & regrease – do not over tighten bolt
- Check mast to boom attachment – remove bolt and regrease pivot bush – retighten bolt *tight*
- Arrange repair/replacement of any faulty parts
- Complete and sign log book

* Top and bottom actuator bolts must not be over tightened – the actuator must be able to pivot on the bolt without resistance.
Ensure original side packing washers are replaced after regreasing.

A Major Service undertaken by an authorised service agent every 12 months is a minimum requirement.

Note: *If applicable, an annual load test (maximum load) to Safe Working Load is required for CE mark maintenance.*

Repairs

Faulty components or workmanship covered by warranty will be repaired where appropriate and replaced when necessary. Defects due to mistreatment or neglect will not be covered by warranty but repair can be arranged by Invacare Australia authorised agents at the request of the User.

Spare Parts

Spare parts are available for purchase through one of our Invacare Australia's authorised agents.

LIMITED WARRANTY

PLEASE NOTE: THE WARRANTY BELOW HAS BEEN DRAFTED TO COMPLY WITH FEDERAL LAW APPLICABLE TO PRODUCTS MANUFACTURED AFTER JULY 4, 1975. This warranty is extended only to the original purchaser/user of our products.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

Invacare warrants the products manufactured to be free from defects in materials and workmanship for a period of three (3) years on the lift and one (1) year on the slings, hydraulic pump / electric components from the date of purchase. If within such warranty period any such product shall be proven to be defective, such product shall be repaired or replaced, at Invacare's option. This warranty does not include any labor or shipping charges incurred in replacement part installation or repair of any such product. Invacare's sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement.

For warranty service, please contact the dealer from whom you purchased your Invacare product. In the event you do not receive satisfactory warranty service, please write directly to Invacare at the address on the back cover, provide dealer's name, address, date of purchase, indicate nature of the defect.

Invacare Corporation will issue a serialized return authorization. The defective unit or parts MUST be returned for warranty inspection using the serial number, when applicable as identification within 30 days of return authorization date. Do not return products to our factory without our prior consent. C.O.D. shipments will be refused; please prepay shipping charges.

LIMITATIONS AND EXCLUSIONS: THE FOREGOING WARRANTY SHALL NOT APPLY TO SERIAL NUMBERED PRODUCTS IF THE SERIAL NUMBER HAS BEEN REMOVED OR DEFACED, PRODUCTS SUBJECTED TO NEGLIGENCE, ACCIDENT, IMPROPER OPERATION, MAINTENANCE OR STORAGE, PRODUCTS MODIFIED WITHOUT INVACARE'S EXPRESS WRITTEN CONSENT (INCLUDING, BUT NOT LIMITED TO, MODIFICATION THROUGH THE USE OF UNAUTHORIZED PARTS OR ATTACHMENTS; PRODUCTS DAMAGED BY REASON OF REPAIRS MADE TO ANY COMPONENT WITHOUT THE SPECIFIC CONSENT OF INVACARE, OR TO A PRODUCT DAMAGED BY CIRCUMSTANCES BEYOND INVACARE'S CONTROL, AND SUCH EVALUATION WILL BE SOLELY DETERMINED BY INVACARE. THE WARRANTY SHALL NOT APPLY TO PROBLEMS ARISING FROM NORMAL WEAR OR FAILURE TO ADHERE TO THE INSTRUCTIONS IN THIS MANUAL.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES. IMPLIED WARRANTIES, IF ANY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE DURATION OF THE EXPRESSED WARRANTY PROVIDED HEREIN AND THE REMEDY FOR VIOLATIONS OF ANY IMPLIED WARRANTY SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT PURSUANT TO THE TERMS CONTAINED HEREIN. INVACARE SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES WHATSOEVER.

Some states DO NOT allow exclusion or limitation of incidental or consequential damage, or limitation on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.

THIS WARRANTY SHALL BE EXTENDED TO COMPLY WITH STATE OR PROVINCIAL LAWS AND REQUIREMENTS.

CE

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